

Eli Lilly and Company Lilly Corporate Center Indianapolis, Indiana 46285 U.S.A.

Phone 317 276 2000

September 21, 2010

CERTIFIED MAIL 7004 0750 0004 3317 5057 RETURN RECEIPT REQUESTED

Mr. Doug Griffin
Project Manager
Office of Land Quality
Indiana Department of Environmental Management
100 N. Senate Avenue
Indianapolis, IN 46204

Notification of Plan to Plug and Abandon Monitoring Well T1852 Corrective Action Agreed Order Evonik Degussa Corporation, Tippecanoe Laboratories Facility ID Number IN 006050967

Dear Mr. Griffin:

Eli Lilly and Company (Lilly) has been notified that a Tippecanoe County construction project to replace the existing vehicle bridge over the Norfolk & Southern railroad will begin soon. Monitoring well T1852 is within the area impacted by the construction project, therefore Lilly intends to plug and abandon T1852 because it is located within the proposed permanent road easement related to a new bridge spanning the Norfolk and Southern Railroad approximately 400 feet south of Lilly Road (see Attachment 1). Specific details regarding the planned plugging and abandonment are presented in the sections below.

Plugging and Abandonment Procedures

Lilly will contract with an Indiana licensed well driller to plug and abandon T1852, as required by IC 25-39-4. The well, which is 6-inches in diameter and 127 feet deep with a 5-foot screen, is screened within the Unit III aquifer (see Attachment 2). The entire well casing will be plugged (completely filled) with an impervious grouting material to prevent migration of materials or fluids in the well. The well will be plugged from the bottom to within at least two feet of the ground surface with neat cement, bentonite slurry, or other suitable material, using a grout pipe placed initially at the bottom of the well and moved progressively upward as the well is filled, as specified in 312 IAC-13-10-2.

The most recent water sampled collected from T1852 (in Q3-2001) contained only one detectable chemical of concern (COC), chloroform. The concentration of chloroform was 0.36 ug/L (see Attachment 3), which is well below Indiana's 80 ug/L default residential standard

suitable for unrestricted use. Therefore, Lilly intends to allow any groundwater displaced from the well casing as it is being plugged to seep into the soil in the vicinity of the well.

After the well casing has been plugged it will be severed at least two feet below the ground surface and a cement plug larger in diameter than the borehole will be constructed over the borehole and covered with natural clay material to the ground surface, as required by 312 IAC 13-10-2 (e).

Notification Procedures

Within 30 days after T1852 has been plugged, Lilly or its authorized agent will notify the Indiana Department of Natural Resources, Division of Water that the well has been abandoned, as required by 312 IAC 13-10-2 (f).

Justification for not Replacing T1852

Lilly does not plan to replace T1852 once it has been abandoned for the following two reasons:

- 1. The well has not been used as a monitoring well for nine years (since Q3-01) because, when it was sampled, it rarely contained significant concentrations of COCs. Lilly had no plans to incorporate it into any future corrective action groundwater monitoring program.
- 2. Although T1852 has been used on a quarterly basis as a piezometer, data provided by nearby wells T1022, T1024, and T1887 (see Attachment 4) will be sufficient in the future for constructing accurate potentiometric surface maps.

Schedule

Lilly intends to proceed with the plugging and abandonment of T1852 within the next two weeks, in order to meet the bridge construction schedule. At the next revision of the Ground Water QAPP for this site, Lilly will remove well T1852 from Table 1 "Quarterly Water Depth Gauging Locations."

Please contact me with any questions at (317)276-8989

Sincerely,

Philip L. Shinn, P.E. Consultant - HSE

cc: Don Heller - EPA Region V

www.schneidercorp.com FAX: 765-448-6665 WEST LAFAYETTE, TELEPHONE: 765-448-6661 WIN HENTSCHEL **SCHNEIDER** SE COR SWI/4-SEC 36-T23N-R5W BERNTSEN MON FOUND POINT OF COMMENCEMENT NORTH=1871986.47 EAST=2994500.76 SW COR. SW1/4 SEC 36-T23N-R5W BERNTSEN MON FOUND NORTH=1871967.80 EAST=2991865.49 -N89° 35' 36"E 60.01' S89' 35' 36"W 817.34" SOUTH LINE SWI/4 36-23-5 IN 47906-NORTH LINE NW1/4 1-22-5 BLVD, SUITE NE COR NW1/4 SEC 1-T22N-R5W BERNTSEN MON FOUND CORPORATION 269.03 30.91 NW COR. NW1/4 SEC 1-T22N-R5W BERNTSEN MON FOUND 362.92 POINT OF BEGINNING PERMANENT EASEMENT NORTH=1871627.44 EAST=2994088.23 -4156 49"E 49"E 25 S66' 44' 25"W 60.06'-25, ≥ S9 /108.04 S90° 00' 00"W 100.16'-N89: 34' 11"W NO' 25' 49"E 81.94 S86° 03' 56"W 480.20' N46° 31' 10"W 30.00' SO'-00' 00"E 154.76' EXISTING GAS MAIN PER LOCATED FIELD MARKINGS PERMANENT 30' EASEMENT Hachment PROPOSED & RELOCATED LILLY ROAD PERMANENT 30' EASEMENT EXISTING 30' GAS LINE EASEMENT DEED RECORD 80, PAGE 2906 PROPOSED R/W RELOCATED LILLY ROAD S85° 41' 56"E 353.42'-S21° 06' 33"E 45.26" T1852 TEMPORARY EASEMENT

IAK NE

Attachment

CETCH

Project:

Well Number: _

1852 (#3)

ordinates:

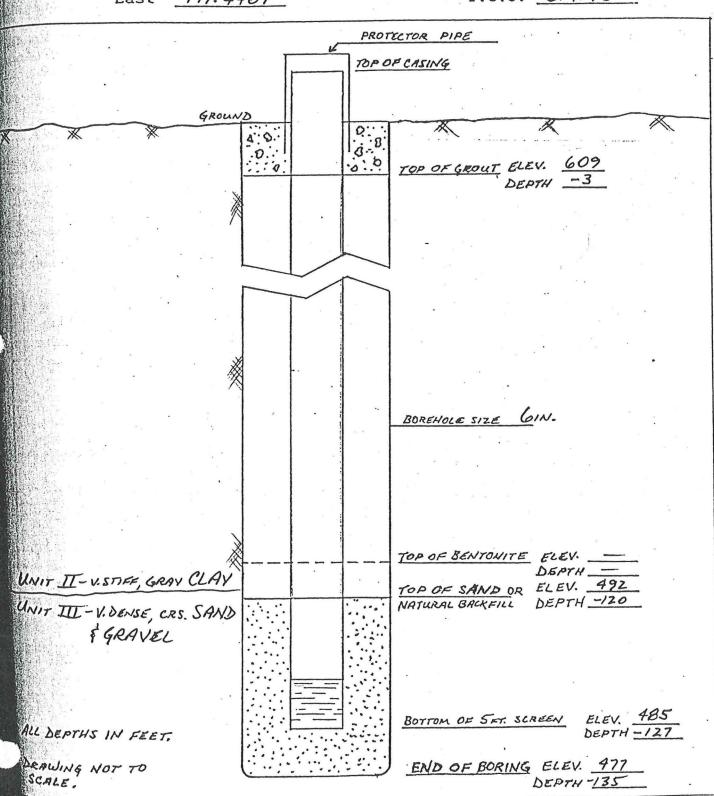
North -421.0049

East 177.4407

Elevations:

Ground 6/2.0

T.O.C. 6/4.96



Full Summary (Unit III) Quarter: 3 Year: Page 27 Attachment Method **UOM** MDL Qualifiers Location: T1852 CONDUCTIVITY 08/15/01 689.00 MHOS Field Data **DISSOLVED OXYGEN** Field Data 08/15/01 2.90 MG/L Field Data PH 08/15/01 7.13 **TEMPERATURE** 08/15/01 Field Data 55.80 DEG F Indicators SOLIDS-TOTAL GP-TL-5007 08/15/01 446.00 MG/L 2.40 **DISSOLVED SOLIDS-TOTAL** 08/15/01 436.00 MG/L 76.50 **GP-TL-5008** CHEMICAL OXYGEN DEMAND-TOTAL 08/15/01 11.00 ND GP-TL-5009 - MG/L **General Chemistry** CHLORIDE 08/15/01 16.25 MG/L 0.02 **GP-TL-5003 GP-TL-5003 NITRATE** 08/15/01 0.00 MG/L 0.10 GP-TL-5003 SULFATE 08/15/01 58.53 MG/L 0.05 363.00 MG/L 08/15/01 69.00 GP-TL-5006 **BICARBONATE** Volatile Organics Organic Compounds by Purge and Trap GC/MSD 1,2-DICHLOROETHANE-D4 08/15/01 96.0000 % **GP-TL-5070** GP-TL-5070 P-BROMOFLUOROBENZENE 08/15/01 110.0000 % **TOLUENE-D8** 08/15/01 109.0000 % GP-TL-5070 GP-TL-5070 1,1,1-TRICHLOROETHANE 08/15/01 UG/L 0.0200 ND 0.0600 ND GP-TL-5070 1,1,2-TRICHLOROETHANE 08/15/01 UG/L GP-TL-5070 1,1-DICHLOROETHANE 08/15/01 UG/L 0.0200 ND 0.0500 ND GP-TL-5070 1,2-DICHLOROETHANE 08/15/01 UG/L GP-TL-5070 **ACETONE** 08/15/01 UG/L 0.6000 ND **GP-TL-5070 ACETONITRILE** 0.6000 ND 08/15/01 UG/L GP-TL-5070 BENZENE 08/15/01 UG/L 0.0200 ND GP-TL-5070 0.0300 ND CHLOROBENZENE 08/15/01 UG/L GP-TL-5070 CHLOROFORM 08/15/01 0.3600 UG/L 0.0700 B GP-TL-5070 0.1000 ND DIETHYL ETHER 08/15/01 UG/L GP-TL-5070 **ETHYL BENZENE** UG/L 0.0500 ND 08/15/01 GP-TL-5070 HEXANE 0.0400 ND 08/15/01 UG/L GP-TL-5070 METHYLENE CHLORIDE 08/15/01 UG/L 0.0900 ND GP-TL-5070 M,P-XYLENE 08/15/01 UG/L 0.0900 ND GP-TL-5070 **O-XYLENE** UG/L 0.0400 ND 08/15/01 GP-TL-5070 P-CHLOROBENZOTRIFLUORIDE 08/15/01 UG/L 0.0500 ND GP-TL-5070 **TETRACHLOROETHYLENE** 0.0300 ND 08/15/01 UG/L GP-TL-5070 **TETRAHYDROFURAN** 08/15/01 UG/L 0.3000 ND GP-TL-5070 TOLUENE 08/15/01 UG/L 0.0400 ND GP-TL-5070 VINYL CHLORIDE 08/15/01 UG/L 0.0200 ND Volatile Organics Organic Compounds by Head Space GC GP-TL-5011 **METHANOL** - MG/L 08/15/01 0.1000 ND Semi-Volatile Organics Organic Compounds by Direct Injection GC/MSD GP-TL-5058 2,4,6-TRIBROMOPHENOL 08/15/01 63.4500 % GP-TL-5058

08/15/01

08/15/01

08/15/01

08/15/01

08/15/01

08/15/01

08/15/01

55.2000 %

60.5500 %

0.0090 MG/L

MG/L

MG/L

MG/L

MG/L

GP-TL-5058

GP-TL-5058

GP-TL-5058

GP-TL-5058

GP-TL-5058

GP-TL-5058

NITROBENZENE-D5

P-TERPHENYL-D14

DIMETHYL PHTHALATE

N,N-DIETHYL ANILINE

PHENANTHRENE

INDENO(1,2,3-C,D)PYRENE

BIS(2-ETHYLHEXYL)PHTHALATE

0.0001 B

0.0001 ND

0.0001 ND

0.0001 ND

0.0001 ND

Attachment SEE DETAIL 1 BELOW-NM T1486 WABASH RIVER 523 000 A O 1128 10 651 534.05 -ф-Т1852 525.69 + T1887 To be Abandoned SLURRY WALL

UNIT III POTENTIOMETRIC SURFACE MARCH 29, 2009

ELI LILLY AND COMPANY TIPPECANOE LABORATORIES LAFAYETTE, INDIANA

